

WHAT IS CLAIMED IS:

1. A biochemical reaction detection apparatus, comprising;
a first membrane;
a plurality of islands provided on one said of said first membrane, and'
probe cells for immobilizing probes for detecting the biochemical reaction,
said probe cells being provided on the other side of said first membrane though the
cross section;
wherein said islands are spaced from each other with intervals, and each of the
islands is provided with a temperature controller for heating and temperature-
controlling said probe cells.
2. The biochemical reaction detection apparatus according to claim 1, wherein the
interval between each of said islands is 50 μm or longer.
3. The biochemical reaction detection apparatus according to claim 1, wherein the
interval between each of said islands is 100 μm or longer.
4. The biochemical reaction detection apparatus according to claim 1, wherein the heat
conductivity of said first membrane is 10 $\mu\text{m w/mk}$ (watt/(meter * kelvin)) or less.